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archæological and anthropological resources of Maine, New Jersey, Kentucky, Oregon, etc. There are in all the States societies of natural history, and it would be pleasant to know whether they discuss anthropological topics. Many private collections of great value are to be found in the States; who knows about them? Now I shall be delighted to have the following questions answered with reference to every State in the Union: 1. Name of society, publication, or collection, public or private, devoted to the whole or a part of anthropology. 2. The nature of this relation to the science with lists of printed books or references in print to these. 3. The name and address of the person who will be glad to give information.

O. T. MASON.

Smithsonian Institution, Washington, D.C., Mar. 11.

### The Aboriginal American Tea.

COMMENTING on my recent query as to any recent use of *Ceanothus Americanus* as a substitute for China tea, Professor W. J. McGee of the United States Geological Survey writes me:—

"Your little note in a current number of *Science* on aboriginal tea is before me. The eastern portion of the Great Plains, including Iowa, Illinois, and parts at least of Missouri, Minnesota, and Wisconsin, is a favorite habitat of the so-called "red root" or "red-root tea" (*Ceanothus Americanus*); and during war times, when the prices of tea and coffee were prohibitory, so far at least

as first settlers in that country were concerned, many substitutes were employed. The common substitute for tea was the red-root, and it was very largely used in this way. The commonest substitute for coffee was rye, usually mixed with a small quantity of the coffee berry, both roasted and browned in the usual way. I should say, perhaps, that the identification of *Ceanothus Americanus* is partly my own and may possibly be erroneous."

I hope we may have other such interesting and valuable replies.

JED. HOTCHKISS.

Staunton, Va.

### The Date of Discovery of the Galapagos Islands.

I AM indebted to Dr. H. Wichmann, the editor of *Petermann's Mitteilungen*, for an answer to my question in *Science* of Jan. 15, 1892: "At what time were the Galapagos Islands discovered?" Dr. H. Wichmann kindly calls my attention to a paper on the history of discovery of the Galapagos Islands, by Timóñez de la Espada, published in *Boletín de la Sociedad Geogr. de Madrid*, Oct.-Dec., 1891., XXXI., Nos. 4-6. From this it is evident. Dr. Wichmann writes, that the discovery of the islands, "Archipelago Encantado," was made the 10th of March, 1535, by Fray Tomás de Berlanga, Bishop of Castilla del Oro, whose report is printed in the paper.

G. BAUR.

Clark University, Worcester, Mass., Mar. 14.

### CALENDAR OF SOCIETIES.

#### Philosophical Society, Washington.

Mar. 12.—B. Pickman Mann, An Attempted Solution of a Social Problem; Alex. S. Christie, Remarks on the Diurnal Variation of the Barometer; G. M. Searle, On a Simple Form of a Double Image Micrometer.

#### Society of Natural History, Boston.

Mar. 16.—J. Walter Fewkes, The Moki Snake Dance.

#### Oriental Club, Philadelphia.

Mar. 17.—Cyrus Adler, An Account of his Recent Travels in the East.

### Publications received at Editor's Office.

- COLBERT, E. *Humanity in its Origin and Early Growth*. Chicago, Open Court Pub. Co. 120. 409 p. \$1.50.
- HOOGWERFF, J. A. *Magnetic Observations at the U. S. Naval Observatory*. Washington, Government. 4<sup>o</sup>. Paper. 99 p.
- MARSH, C. C. *Report upon some of the Magnetic Observations of Europe*. Washington, Government. 4<sup>o</sup>. Paper. 37 p.
- U. S. NAVAL OBSERVATORY. *Meteorological Observations and Results, 1883-1887*. Washington, Government. 4<sup>o</sup>. Paper. 261 p.
- U. S. COAST AND GEODETIC SURVEY. *Results of Magnetic Observations at Los Angeles, California, 1882-1889. Part I*. Washington, Government. 4<sup>o</sup>. Paper. 42 p.
- Early Expeditions to the Region of Bering Sea and Strait*. Washington, Government. 4<sup>o</sup>. Paper. 14 p.
- International Geodetic Association, Ninth Conference*. Washington, Government. 4<sup>o</sup>. Paper. 12 p.
- Notes on an Early Chart of Long Island Sound*. Washington, Government. 4<sup>o</sup>. Paper. 4 p.
- On an Approximate Method of Computing Probable Error. On the Determination by Least Squares of the Relation between Two Variables*. Washington, Government. 4<sup>o</sup>. Paper. 16 p.
- On the Use of Observations of Currents for Prediction Purposes*. Washington, Government. 4<sup>o</sup>. Paper. 12 p.
- The National Prototypes of the Standard Metre and Kilogramme*. Washington, Government. 4<sup>o</sup>. Paper. 23 p.
- The Relation of the Yard to the Metre*. Washington, Government. 4<sup>o</sup>. Paper. 5 p.
- Tides at Sandy Hook. Observed and Predicted Times and Heights during the year 1889*. Washington, Government. 4<sup>o</sup>. Paper. 10 p.
- WHYMPER, EDWARD. *Travels amongst the Great Andes of the Equator; with Supplementary Appendix*. New York; Charles Scribner's Sons. 8<sup>o</sup>. 2 vols. Pp. 486, 175.

### Business Department.

Geo. L. English & Co., mineralogists, 733 and 735 Broadway, New York, have just received a large lot of fine cut Opals, which were secured by Mr. Niven in Mexico, and they are prepared to supply customers at unprecedentedly low prices. Read Advertisement.

A Catalogue of an Exhibition of Studies, Drawings and Sketches by Turner, Gainsborough, Blake, and other contemporary English Masters just opened at the Keppel Gallery is published by Frederick Keppel & Co., 20 East Sixteenth Street, who will mail a copy to anyone mentioning *SCIENCE*. There are 145 drawings shown in pencil, ink and water-color memoranda, but little being finished work, and consequently more interesting to the student.

J. H. Goodwin's *Improved Bookkeeping and Business Manual*, advertised on title page of this number, is all that the author claims for it. That more practical information about bookkeeping can be obtained from this book than from any college or school course is abundantly confirmed by the experience of the writer with the earlier editions, as well as that of his sons, now successfully established in business, and who gladly acknowledge their indebtedness to this one publication for the help it has given them unaided by a teacher. The later editions contain many improvements which make the publication increasingly valuable.

### Exchanges.

[Free of charge to all, if of satisfactory character. Address N. D. C. Hodges, 874 Broadway, New York.]

For sale or exchange, *Das Ausland*, 10 vols., 1832 to 1891, including 6 vols. bound, 4 in numbers. Wheeler Survey, vol. 1. Geog. Report; also vol. 6, Botany; Production of gold and silver in the United States, 1880, '1, '2, '3, '5; Selfridge Isthmus of Darien. Will sell at very low prices. J. F. James, 1443 Corcoran St., Washington, D. C.

Chemical Library for sale. *Fresenius Zeitschrift für Analytische Chemie*. Complete 30 volumes, bound, at \$4.50 per volume. *Fehling's Handwörterbuch der Chemie*, 5 volumes, bound, and 5 parts of Vol. 6 (not yet completed), at \$5 each for the bound volumes, and 40 cts. per part for the subsequent numbers. A list of other chemical and mineralogical works will be furnished on application. Address P. O. Box 477, Wauwatosa, Wis.

For exchange.—A fine thirteen-keyed flute in leather covered case, for a photograph camera suitable for making lantern slides. Flute cost \$27, and is nearly new. U. O. COX, Mankato, Minn.

### Wants.

*Any person seeking a position for which he is qualified by his scientific attainments, or any person seeking some one to fill a position of this character, be it that of a teacher of science, chemist, draughtsman, or what not, can have the 'Want' inserted under this head at 10 cents a count line. Nothing inserted at less than 50 cents a time prepaid by stamps, if most convenient.*

TRANSLATOR wanted to read German architectural works at sight (no writing). One familiar with technical terms desired. Address "A," Box 149, New York Post Office.

WANTED.—A position in a manufacturing establishment by a manufacturing Chemist of inventive ability. Address M. W. B., care of *Science*, 874 Broadway, N. Y.

WANTED.—Books on Anatomy and Hypnotism. Will pay cash or give similar books in exchange. Also want medical battery and photo outfit. DR. ANDERSON, 182 State street, Chicago, Ill.

WANTED.—A college graduate with some normal training, to teach the sciences, at \$1,800 per year, in a Southern college. A Baptist or a Methodist preferred. Must also be a first-class Latin scholar. A. H. Beals, Box K, Milledgeville, Ga.

A PROFESSORSHIP in Chemistry is wanted by one who has had five years' experience in that capacity. Would prefer to give instruction by lectures and experiments rather than by text-book methods. Would like a position in a college or university where there is a good student's laboratory. Special points of strength claimed are: (1) Thorough control of a class and good order during lectures and recitations. (2) Accuracy in experimenting with chemicals and skill in the manipulation of chemical apparatus. The permission of several distinguished educators has been given to refer to them if required. Would not care to accept a position paying less than \$1,500. Address B. E., care of *Science*, Advertising Dept., 47 Lafayette Place, New York.

ADDRESS WANTED.—Will some one please send the address of the Secretary of the American Philological Society. Also that of Herbert Spencer. "ADDISON," Room 84, 164 Madison St., Chicago, Ill.

ADDRESSES of Old Book Dealers wanted.—Wishing to obtain a number of old books out of print. I very much desire the addresses or catalogues of rare second-hand book dealers. If there is a directory or list of such dealers I should like to obtain possession of one. W. A. BLAKELY, Chicago, Ill.

WANTED.—(1) A white man versed in wood and iron working, able to work from specifications and plans, suited for an instructor of boys; his business to have charge of shops of school, outline and direct the work for foremen and students; salary to be \$1,000 per annum (nine months). (2) A man (black preferred) to teach the colored, iron working and forging, subordinate to the preceding; salary, \$720. (3) A man (white) competent to take classes in engineering (assistant's position), but with the ability to perform any of the work required in any of the ordinary engineering courses of our universities; salary from \$1,000 to \$1,500. A. H. BEALS, Milledgeville, Ga.